



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/681,930	06/27/2001	Kuldipsingh Pabla	83000.1126B	8321	
32291 7	7590 11/16/2005		EXAMINER		
MARTINE P	ENILLA & GENCAL	TANG, KI	TANG, KENNETH		
SUITE 200	AT DRIVE		ART UNIT	PAPER NUMBER	
SUNNYVALE, CA 94085			2195		

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)				
Office Action Summary		09/681,9	30	PABLA ET AL.				
		Examine	г	Art Unit				
		Kenneth	Tang	2195				
Period fo	The MAILING DATE of this communic or Reply	ation appears on th	e cover sheet with	the correspondence ac	idress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum stature to reply within the set or extended period for reply with epty received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF TI 37 CFR 1.136(a). In no ex ication. tory period will apply and v II, by statute, cause the app	HIS COMMUNICA vent, however, may a rep vill expire SIX (6) MONTA plication to become ABA	ATION. Ily be timely filed HS from the mailing date of this of NDONED (35 U.S.C. § 133).	·			
Status								
1)⊠	Responsive to communication(s) filed	on 30 August 200:	5					
•—	This action is FINAL . 2b)⊠ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
•	☐ Claim(s) is/are rejected.							
-								
8)[]	8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)□	The specification is objected to by the	Examiner.						
•) objected to b	v the Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to t	by the Examiner. N	ote the attached	Office Action or form P	TO-152.			
Priority (under 35 U.S.C. § 119							
	Acknowledgment is made of a claim fo ☐ All b)☐ Some * c)☐ None of:	or foreign priority ur	ider 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internation	·	• • •					
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notic	e of Draftsperson's Patent Drawing Review (PT		Paper No(s)	/Mail Date	CO 152)			
	mation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date	TO/SB/08)	5) Notice of Informal Patent Application (PTO-152)6) Other:					

Art Unit: 2195

DETAILED ACTION

1. This action is in response to the Amendment filed on 8/30/05. Applicant's arguments has been fully considered but is not found to be persuasive.

2. Claims 1-18 are presented for examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-15 and 17-18 is rejected under 35 U.S.C. 103(a) as being unpatentable over 3. Atkinson et al. (hereinafter Atkinson) (US 2002/0012329 A1) in view of French-St. George et al. (hereinafter French-St. George) (US 6,012,030).
- 4. As to claim 18, Atkinson teaches a multi-tier system for providing vendor-neutral communication to mobile devices (page 3, [0023]) comprising:
- a client device having a virtual machine capable of processing device-independent applications (page 2, [0020]),
- a plurality of servers providing a plurality of services to said client device in the form of said device-independent applications (device independent because of device platform independent) ([0050], [0020], [0022], [0024], [0028], [0030], [0097]);

Art Unit: 2195

a gateway for preprocessing (instantiation, etc.) communications between said client device and said plurality of servers thereby reducing processing requirements on said client device (processing memory requirements are reduced because of instantiation) (page 1, [0012] through page 2, [0013], [0103]);

Page 3

a plurality of peer-to-peer communication layers between said plurality of servers and said client device through said gateway, said gateway providing protocol translation between said plurality of servers and said client device, wherein said preprocessing communications includes transforming (converting) any content (page 6, [0051], page 2, [0021], [0013], [0031]);

a manager object in said client device for managing said device-independent applications (page 3, [0024], page 5, [0050], claim 9)

- 5. Atkinson fails to explicitly teach each of said device-independent applications having a plurality of states, wherein said plurality of states comprises an initialization state, a background state, a foreground state, a destroy state, and a paused state.
- 6. However, French-St. George teaches using a hand held portable device that provides switching between a foreground and background state of an interface (col. 5, lines 8-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the feature of using a hand held portable device that provides switching between a foreground and background state of an interface in order to gain the advantage of conserving processing power by placing inactive applications in the foreground until it is required, where switching to the background will then occur (col. 5, lines 12-20).

Art Unit: 2195

7. In addition, Atkinson and French-St. George fails to explicitly teach an initialization (start) state, a destroy (end) state, and a paused state. However, "Official Notice" is taken that both the concept and advantages of providing that an initialization (start) state, a destroy (end) state, and a paused state is well known and expected in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include an initialization (start) state, a destroy (end) state, and a paused state to the existing system and method of Atkinson and French-St. George because these are simply the controls that allow for the switching between the background and foreground. Without such controls, the switching would not be able to occur.

Page 4

As to claim 17, it is rejected for the same reasons as stated in the rejection of claim 18 8. above. In addition, Atkinson teaches a framework for the mobile devices (page 5, [0050], page 12, [0102], page 13, [0104]).

As to claim 1, it is rejected for the same reasons as stated in the rejection of claim 18 above. In addition, Atkinson teaches a framework for the mobile devices (page 5, [0050], page 12, [0102], page 13, [0104]).

As to claim 2, Atkinson teaches wherein said plurality of peer-to-peer layers comprises: 9. at least one physical data link layer, a network layer, a transport layer, a session layer, a presentation layer; and an applications layer (page 1, [0012], pages 1-2, [0013], page 2, [0020] and [0022], page 3, [0025] and [0027], page 4, [0034]).

Art Unit: 2195

10. As to claim 3, Atkinson teaches wherein said at least one physical data link layer comprises landline communication between said third tier and said second tier, and wireless communication between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021]).

Page 5

- 11. As to claim 4, Atkinson teaches wherein said network layer uses Internet Protocol communication between said third tier and said second tier, and wireless applications protocol between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).
- As to claim 5, Atkinson teaches wherein said transport layer uses transport control 12. protocol between said third tier and said second tier, and wireless applications protocol between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).
- As to claim 6, Atkinson teaches wherein said session layer uses hypertext transport 13. protocol between said third tier and said second tier and amongst services in said third tier, and wireless applications protocol between said second tier and said first tier (page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).

Application/Control Number: 09/681,930 Page 6

Art Unit: 2195

14. As to claim 7, Atkinson teaches wherein said presentation layer uses a markup language

between said third tier and said second tier, and a wireless markup language between said second

tier and said first tier (page 3, [0025]).

15. As to claim 8, Atkinson teaches wherein said application layer prepares graphical data for

presentation, said graphical data being available in any suitable graphical format and

communicated from said third tier to said second tier, said second tier converting said graphical

data to a wireless graphics format for transmission to said first tier (pages 12-13, [0102]).

16. As to claim 9, Atkinson teaches wherein said first tier is a wireless device (page 1-2,

[0013]).

17. As to claim 10, Atkinson teaches wherein said wireless device is a cellular phone (page

1, [0003]).

18. As to claim 11, Atkinson teaches wherein said wireless device is a personal data assistant

(page 1, [0003]).

19. As to claim 12, Atkinson teaches wherein said wireless device includes a software

architecture comprising a real-time operating system layer, a virtual machine layer having at

least one system class, an application layer (page 2, [0016] and [0020], page 3, [0027]).

Art Unit: 2195

- 20. As to claim 13, Atkinson teaches wherein said real-time operating system layer comprises a wireless small device operating system, a plurality of linking and networking application programming interfaces, and an object for updating and installing software in said wireless device (page 1, [0004], page 3, [0023], page 5, [0050], page 6, [0051], page 2, [0021], page 3, [0025]).
- 21. As to claim 14, it is rejected for the same reasons as stated in the rejections of claims 1 and 18.
- 22. As to claim 15, it is rejected for the same reasons as stated in the rejections of claim 18.
- 23. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atkinson et al. (hereinafter Atkinson) (US 2002/0012329 A1) in view of French-St. George et al. (hereinafter French-St. George) (US 6,012,030), and further in view of Adusumilli (US 5,870,749)
- As to claim 16, it is rejected for the same reasons as stated in the rejections of claim 18. However, Atkinson and French fail to explicitly teach creating a registry that includes an application object class ID for each of the application object class. Adusumilli teaches creating a registry such as a data object class table with entries having an attribute and ID (col. 3, lines 24-45). It would have been obvious to one of ordinary skill in the art at the time the invention was

Art Unit: 2195

made to combine Adusumilli with Atkinson and French-St. George because this would allow for a simple reliable means to make data translations (col. 1, lines 66-67).

Response to Arguments

25. Applicant argues on page 7 of the Remarks that Atkinson nor French teaches a plurality of servers providing a plurality of services to said client device in the form of said device-independent applications.

As shown in the rejection of claims 1, 17, and 18 above, Atkinson teaches servers that provide services to a client such that the device applications are device platform independent (with Java, for example) ([0050], [0020], [0022], [0024], [0028], [0030], [0097]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2195

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt 11/8/05

> MENERAL T. AND SLAERVISSERY REACTOR OF LINER TECKNICHO THE STATE OF LINER

Page 9